

# Printing Machinery and Equipment Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
333293, Printing machinery and equipment manufacturing.....	2002..	465	497	15 618	741 955	8 263	15 245	310 387	1 559 602	1 363 967	2 879 211	56 205
	2001..	N	N	18 249	803 578	10 036	20 189	357 613	1 597 250	1 567 626	3 191 686	96 337
	2000..	N	N	20 111	916 693	11 410	23 471	425 856	2 040 205	1 879 014	3 869 047	91 097
	1999..	N	N	19 596	865 268	11 050	22 442	396 170	1 917 262	1 645 551	3 605 495	79 465
	1998..	N	N	21 140	871 206	11 279	23 347	403 835	2 000 810	1 917 052	3 962 536	87 757
	1997..	504	553	22 390	924 863	11 706	24 298	412 907	2 030 816	1 768 141	3 786 716	104 415

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>333293, Printing machinery and equipment manufacturing</b>												
United States .....	1	497	179	15 618	741 955	8 263	15 245	310 387	1 559 602	1 363 967	2 879 211	'56 205
California .....	4	40	13	1 413	60 273	743	1 571	24 824	106 305	84 415	193 918	'2 351
Colorado .....	—	7	2	182	8 478	96	204	3 398	28 028	15 163	45 632	'813
Connecticut .....	—	11	4	406	12 259	343	685	8 403	39 619	19 603	60 201	'475
Florida .....	4	12	3	166	7 081	111	181	3 876	11 052	8 117	20 299	'236
Illinois .....	1	65	29	1 708	81 802	877	1 751	31 918	155 270	136 719	295 817	'3 494
Indiana .....	2	13	7	497	21 907	278	607	9 775	42 753	27 489	69 901	'753
Massachusetts .....	2	17	13	822	39 548	403	853	15 977	91 751	65 422	157 407	'2 322
Michigan .....	2	12	4	163	8 166	87	181	3 446	16 273	11 935	28 132	'345
Minnesota .....	3	15	3	309	17 228	107	223	3 822	31 507	36 331	68 032	'1 485
Missouri .....	1	10	6	445	22 834	224	260	8 603	50 753	27 707	73 473	'875
New Jersey .....	1	32	14	676	35 459	338	698	15 149	74 093	59 112	131 713	'4 630
New York .....	—	36	12	1 457	80 393	558	742	24 201	156 214	151 612	312 846	'4 927
North Carolina .....	1	12	6	424	20 120	216	448	7 278	65 566	23 402	88 601	'1 260
Ohio .....	4	26	8	800	34 371	419	684	14 064	65 642	63 750	129 230	'3 721
Pennsylvania .....	1	24	7	909	48 043	443	1 010	20 029	153 649	95 076	227 461	'2 417
Rhode Island .....	1	3	2	100	4 244	63	137	2 292	7 876	7 006	14 329	'466
Texas .....	2	24	7	584	22 579	354	727	11 260	46 938	45 419	91 838	'2 901
Virginia .....	—	8	2	313	13 809	214	418	8 264	25 925	16 239	42 787	'762

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>333293, Printing machinery and equipment manufacturing</b>	
Companies <sup>1</sup> .....	number.. 465
All establishments <sup>2</sup> .....	number.. 497
Establishments with 1 to 19 employees .....	number.. 318
Establishments with 20 to 99 employees .....	number.. 149
Establishments with 100 employees or more .....	number.. 30
All employees <sup>3</sup> .....	number.. 15 618
Total compensation .....	\$1,000.. 896 751
Annual payroll .....	\$1,000.. 741 955
Total fringe benefits .....	\$1,000.. 154 796
Production workers, average for year .....	number.. 8 263
Production workers on March 12 .....	number.. 8 297
Production workers on May 12 .....	number.. 8 190
Production workers on August 12 .....	number.. 8 317
Production workers on November 12 .....	number.. 8 226
Production worker hours .....	1,000.. 15 245
Production worker wages .....	\$1,000.. 310 387
Total cost of materials .....	\$1,000.. 1 363 967
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 1 167 982
Resales .....	\$1,000.. 116 119
Purchased fuels .....	\$1,000.. 6 597
Purchased electricity .....	\$1,000.. 39 579
Contract work .....	\$1,000.. 33 690
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 385 093
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Total value of shipments .....	\$1,000.. 2 879 211
Primary products value of shipments .....	\$1,000.. 2 552 103
Secondary products value of shipments .....	\$1,000.. 81 519
Total miscellaneous receipts .....	\$1,000.. 245 589
Value of resales .....	\$1,000.. 168 850
Contract receipts .....	\$1,000.. 9 010
Other miscellaneous receipts .....	\$1,000.. 67 729
Primary products specialization ratio .....	percent.. 97
Value of primary products shipments made in all industries .....	\$1,000.. 2 711 585
Value of primary products shipments made in this industry .....	\$1,000.. 2 552 103
Value of primary products shipments made in other industries .....	\$1,000.. 159 482
Coverage ratio .....	percent.. 94
Value added .....	\$1,000.. 1 559 602
Total inventories, beginning of year .....	\$1,000.. 683 094
Finished goods inventories .....	\$1,000.. 147 015
Work-in-process inventories .....	\$1,000.. 205 918
Materials and supplies inventories .....	\$1,000.. 330 161
Total inventories, end of year .....	\$1,000.. 703 279
Finished goods inventories .....	\$1,000.. 167 859
Work-in-process inventories .....	\$1,000.. 229 432
Materials and supplies inventories .....	\$1,000.. 305 988
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. <sup>1</sup> 075 520
Total capital expenditures (new and used) .....	\$1,000.. <sup>56</sup> 205
Buildings and other structures (new and used) .....	\$1,000.. <sup>7</sup> 415
Machinery and equipment (new and used) .....	\$1,000.. <sup>48</sup> 790
Automobiles, trucks, etc., for highway use .....	\$1,000.. <sup>2</sup> 952
Computers and peripheral data processing equipment .....	\$1,000.. <sup>8</sup> 336
All other expenditures for machinery and equipment .....	\$1,000.. <sup>37</sup> 502
Total retirements .....	\$1,000.. <sup>48</sup> 560
Gross value of depreciable assets at end of year .....	\$1,000.. <sup>1</sup> 083 165
Depreciation charges during year .....	\$1,000.. <sup>74</sup> 089
Total rental payments .....	\$1,000.. 42 274
Buildings and other structures .....	\$1,000.. 31 343
Machinery and equipment .....	\$1,000.. 10 931
Total other expenses <sup>4</sup> .....	\$1,000.. 224 006
Response coverage ratio <sup>5</sup> .....	percent.. 71
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 6 277
Communications services <sup>4</sup> .....	\$1,000.. 7 791
Legal services <sup>4</sup> .....	\$1,000.. 3 671
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 3 714
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 9 617
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 4 349
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 1 404
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 13 634
Taxes and license fees <sup>4</sup> .....	\$1,000.. 8 659
All other expenses <sup>4</sup> .....	\$1,000.. 164 889

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on 2002 Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
333293, Printing machinery and equipment manufacturing											
All establishments .....	1	497	15 618	741 955	8 263	15 245	310 387	1 559 602	1 363 967	2 879 211	'56 205
Establishments with—											
1 to 4 employees .....	8	164	372	15 647	210	354	6 719	30 188	24 257	54 710	'863
5 to 9 employees .....	7	79	548	26 209	286	571	10 485	52 681	44 545	96 904	'3 173
10 to 19 employees .....	2	75	1 057	45 447	553	1 085	18 982	92 031	62 083	152 410	'3 942
20 to 49 employees .....	2	100	3 072	131 580	1 716	3 472	59 453	280 620	197 601	480 386	'9 051
50 to 99 employees .....	1	49	3 423	163 825	1 805	3 733	70 796	323 732	266 855	597 486	'14 560
100 to 249 employees .....	1	23	3 490	170 274	1 676	3 418	64 164	445 727	342 829	773 092	'9 142
250 to 499 employees .....	1	4	g	D	D	D	D	D	D	D	D
500 to 999 employees .....	—	2	g	D	D	D	D	D	D	D	D
1,000 to 2,499 employees .....	—	1	g	D	D	D	D	D	D	D	D
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	192	672	30 113	358	681	12 096	56 155	47 678	103 826	'1 722

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
333293	Printing machinery and equipment manufacturing .....	497	15 618	741 955	8 263	15 245	310 387	1 559 602	1 363 967	2 879 211	'56 205
3332931	Printing presses, offset lithographic .	27	2 431	124 093	1 230	1 967	52 119	243 103	299 923	489 953	'9 030
3332933	Printing presses, other than lithographic .....	29	g	D	D	D	D	D	D	D	D
3332935	Typesetting machinery, excluding justifying typewriters .....	1	a	D	D	D	D	D	D	D	D
3332937	Binding machinery and equipment (including paper cutting, collating, and gathering machines) .....	22	1 730	78 318	1 086	1 779	41 509	134 895	126 178	268 832	'4 601
3332939	All other miscellaneous printing trades machinery .....	142	7 666	367 047	3 906	7 738	144 645	802 402	675 317	1 488 185	'27 940

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333293	Printing machinery and equipment manufacturing .....	2002.. N 1997.. N	X X	X X	2 711 585 3 211 931
3332931	Printing presses, offset lithographic .....	2002.. N 1997.. N	X X	X X	373 530 584 387
33329311	Printing presses, offset lithographic, sheet-fed .....	2002.. N 1997.. N	X X	X X	32 244 67 370
3332931101	Printing presses, offset lithographic, small sheet-fed (less than 14 inches) .....	2002.. 5 1997.. 6	X X	X X	11 384 10 948
3332931111	Printing presses, offset lithographic, other sheet-fed (14 inches or more) .....	2002.. 6 1997.. 6	X X	X X	20 860 56 422
33329312	Printing presses, offset lithographic, roll-fed (web-fed), newspaper .....	2002.. N 1997.. N	X X	X X	130 030 155 431
3332931221	Printing presses, offset lithographic, roll-fed (web-fed), newspaper .....	2002.. 7 1997.. 10	X X	S S	130 030 155 431
33329313	Printing presses, offset lithographic, other roll-fed (web-fed) .....	2002.. N 1997.. N	X X	X X	D 54 014
3332931331	Printing presses, offset lithographic, roll-fed (web-fed), business forms .....	2002.. 4 1997.. 8	X X	S S	D 44 036
3332931351	Printing presses, offset lithographic, roll-fed (web-fed), all other .....	2002.. — 1997.. 4	X X	X X	— 9 978
33329314	Printing presses, offset lithographic, roll-fed (web-fed), commercial (including heat-set) .....	2002.. N 1997.. N	X X	X X	182 974 297 370
3332931441	Printing presses, offset lithographic, roll-fed (web-fed), commercial (including heat-set) .....	2002.. 13 1997.. 10	X X	S S	182 974 297 370
3332931Y	Printing presses, offset lithographic, nsk .....	2002.. N 1997.. N	X X	X X	14 966 10 202
3332931YVV	Printing presses, offset lithographic, nsk .....	2002.. N 1997.. N	X X	X X	14 966 10 202
3332933	Printing presses, other than lithographic .....	2002.. N 1997.. N	X X	X X	334 076 383 117
33329331	Printing presses, flexographic, sheet-fed and roll-fed (web-fed) .....	2002.. N 1997.. N	X X	X X	148 238 228 079
3332933101	Printing presses, flexographic, sheet-fed and web-fed (less than 16 inches) .....	2002.. 3 1997.. 7	X X	D P559.0	D 76 900
3332933111	Printing presses, flexographic, sheet-fed and web-fed (16 inches or more) .....	2002.. 11 1997.. 13	X X	D S	D 151 179
33329332	Other printing presses .....	2002.. N 1997.. N	X X	X X	128 302 D
3332933241	Gravure printing machinery .....	2002.. 7 1997.. 5	X X	X X	57 296 D
3332933251	Industrial laser printing press systems and equipment .....	2002.. 4 1997.. N	X X	X X	D D
3332933262	Other printing presses, including metal decorating, proof, screen, pad printing, letterpress, and rebuilt printing presses .....	2002.. 21 1997.. N	X X	X X	D D
3332933Y	Printing presses, other than lithographic, nsk .....	2002.. N 1997.. N	X X	X X	57 536 D
3332933YVV	Printing presses, other than lithographic, nsk .....	2002.. N 1997.. N	X X	X X	57 536 N
3332935	Typesetting machinery, excluding justifying typewriters .....	2002.. N 1997.. N	X X	X X	D D
33329351	Typesetting machinery, excluding justifying typewriters .....	2002.. N 1997.. N	X X	X X	D D
3332935101	Phototypesetting machines .....	2002.. 1 1997.. 1	X X	X X	D D
3332935151	Other typesetting machinery, including apparatus and equipment for typesetting with or without founding devices (excluding justifying typewriters) .....	2002.. — 1997.. 1	X X	X X	— D
3332935Y	Typesetting machinery, excluding justifying typewriters, nsk .....	2002.. N 1997.. N	X X	X X	— N
3332935YVV	Typesetting machinery, excluding justifying typewriters, nsk .....	2002.. N 1997.. N	X X	X X	— N
3332937	Binding machinery and equipment (including paper cutting, collating, and gathering machines) .....	2002.. N 1997.. N	X X	X X	D D
33329371	Binding machinery and equipment (including paper cutting, collating, and gathering machines) .....	2002.. N 1997.. N	X X	X X	D D
3332937101	Saddle, perfect-adhesive, and hard case (edition) binding equipment .....	2002.. 10 1997.. 11	X X	X X	D D
3332937111	Printing trades paper cutting machines .....	2002.. 9 1997.. 10	X X	X X	15 139 18 061
3332937121	Printing trades collating and gathering machines (sold separately) .....	2002.. 5 1997.. 10	X X	X X	21 877 25 064
3332937131	Printing trades folding machines .....	2002.. 9 1997.. 10	X X	X X	29 553 59 261
3332937141	Printing trades newspaper inserting equipment .....	2002.. 2 1997.. 6	X X	X X	D D
3332937151	Other printing trades binding machinery and equipment, including stitchers and trimmers .....	2002.. 11 1997.. 21	X X	X X	37 775 76 232

See footnotes at end of table.



Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333293	Printing machinery and equipment manufacturing—Con.				
3332937	Binding machinery and equipment (including paper cutting, collating, and gathering machines)—Con.				
3332937Y	Binding machinery and equipment (including paper cutting, collating, and gathering machines), nsk .....	2002.. N	X	X	45 076
		1997.. N	X	X	496
3332937YVV	Binding machinery and equipment (including paper cutting, collating, and gathering machines), nsk .....	2002.. N	X	X	45 076
		1997.. N	X	X	496
3332939	All other miscellaneous printing trades machinery .....	2002.. N	X	X	1 428 523
		1997.. N	X	X	1 697 553
33329391	Prepress preparatory equipment (excluding typesetting equipment and cameras), including engravers' materials and equipment .....	2002.. N	X	X	671 705
		1997.. N	X	X	697 289
3332939101	Digital electronic prepress systems, components, and elements, including color and B/W scanners, digitizers, and recorders, other input or output devices, and digital previewers .....	2002.. 19	X	X	326 565
		1997.. 16	X	X	229 247
3332939122	Other prepress preparatory equipment .....	2002.. 11	X	X	27 511
		1997.. N	X	X	N
3332939131	Industrial etching and engraving laser systems and equipment .....	2002.. 10	X	X	79 756
		1997.. 5	X	X	D
3332939132	Engravers' materials and equipment, including printing type, blocks, plates, cylinders, and other printing components .....	2002.. 20	X	X	227 124
		1997.. 31	X	X	336 690
3332939141	Other printing trades engravers' materials and equipment .....	2002.. 5	X	X	10 749
		1997.. 15	X	X	D
33329392	Parts, attachments, and accessories for printing presses, including flying pasters, dryers, folders, and reels, all types (sold separately) .....	2002.. N	X	X	295 666
		1997.. N	X	X	408 923
3332939251	Parts, attachments, and accessories for printing presses, including flying pasters, dryers, folders, and reels, all types (sold separately) .....	2002.. 59	X	X	295 666
		1997.. 72	X	X	408 923
33329393	Parts, attachments, and accessories for typesetting machines, all types (sold separately) .....	2002.. N	X	X	D
		1997.. N	X	X	D
3332939361	Parts, attachments, and accessories for typesetting machines, all types (sold separately) .....	2002.. 1	X	X	D
		1997.. 2	X	X	D
33329394	Parts, attachments, and accessories for bindery equipment, all types (sold separately) .....	2002.. N	X	X	18 500
		1997.. N	X	X	51 219
3332939471	Parts, attachments, and accessories for bindery equipment, all types (sold separately) .....	2002.. 9	X	X	18 500
		1997.. 15	X	X	51 219
33329395	Parts, attachments, and accessories for prepress preparatory equipment (excluding typesetting and camera parts) (sold separately) .....	2002.. N	X	X	D
		1997.. N	X	X	D
3332939581	Parts, attachments, and accessories for prepress preparatory equipment (excluding typesetting and camera parts) (sold separately) .....	2002.. 9	X	X	D
		1997.. 5	X	X	D
33329396	Parts, attachments, and accessories for other printing trades machinery and equipment, all types (sold separately) .....	2002.. N	X	X	139 232
		1997.. N	X	X	192 396
3332939686	Parts, attachments, and accessories for other printing trades machinery and equipment, all types (sold separately) .....	2002.. 47	X	X	139 232
		1997.. 53	X	X	192 396
33329397	Other printing trades machinery and equipment, including platens (excluding typewriters) .....	2002.. N	X	X	200 126
		1997.. N	X	X	282 527
3332939791	Other printing trades machinery and equipment, including platens (excluding typewriters) .....	2002.. 27	X	X	200 126
		1997.. 35	X	X	282 527
3332939Y	All other miscellaneous printing trades machinery, nsk .....	2002.. N	X	X	86 995
		1997.. N	X	X	31 167
3332939YVV	All other miscellaneous printing trades machinery, nsk .....	2002.. N	X	X	86 995
		1997.. N	X	X	31 167
333293W	Printing machinery and equipment manufacturing, nsk, total .....	2002.. N	X	X	317 899
		1997.. N	X	X	157 394
333293WY	Printing machinery and equipment manufacturing, nsk, total .....	2002.. N	X	X	317 899
		1997.. N	X	X	157 394
333293WYVWW	Printing machinery and equipment manufacturing, nsk, for nonadministrative-record establishments .....	2002.. N	X	X	217 662
		1997.. N	X	X	51 160
333293WYWY	Printing machinery and equipment manufacturing, nsk, for administrative-record establishments .....	2002.. N	X	X	100 237
		1997.. N	X	X	106 234

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p–10 to 19 percent estimated; q–20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3332931	Printing presses, offset lithographic	
	United States . . . . . 2002 . .	373 530
	1997 . .	584 387
	Illinois . . . . . 2002 . .	39 100
	1997 . .	36 614
	New York . . . . . 2002 . .	13 104
	1997 . .	21 216
3332933	Printing presses, other than lithographic	
	United States . . . . . 2002 . .	334 076
	1997 . .	383 117
	California . . . . . 2002 . .	6 354
	1997 . .	N
	Illinois . . . . . 2002 . .	10 061
	1997 . .	30 750
	Massachusetts . . . . . 2002 . .	3 702
	1997 . .	N
	Michigan . . . . . 2002 . .	6 424
	1997 . .	N
	New Jersey . . . . . 2002 . .	51 602
	1997 . .	90 434
	Ohio . . . . . 2002 . .	50 300
	1997 . .	N
	Pennsylvania . . . . . 2002 . .	32 438
	1997 . .	N
3332935	Typesetting machinery, excluding justifying typewriters	
	United States . . . . . 2002 . .	D
	1997 . .	D
3332937	Binding machinery and equipment (including paper cutting, collating, and gathering machines)	
	United States . . . . . 2002 . .	D
	1997 . .	D
	Illinois . . . . . 2002 . .	10 685
	1997 . .	13 302
	Indiana . . . . . 2002 . .	7 597
	1997 . .	N
3332939	All other miscellaneous printing trades machinery	
	United States . . . . . 2002 . .	1 428 523
	1997 . .	1 697 553
	California . . . . . 2002 . .	129 265
	1997 . .	89 397
	Connecticut . . . . . 2002 . .	47 179
	1997 . .	80 360
	Illinois . . . . . 2002 . .	128 117
	1997 . .	233 246
	Indiana . . . . . 2002 . .	22 469
	1997 . .	40 899
	Massachusetts . . . . . 2002 . .	107 231
	1997 . .	164 037
	Michigan . . . . . 2002 . .	7 524
	1997 . .	23 524
	Minnesota . . . . . 2002 . .	27 053
	1997 . .	44 845
	New Jersey . . . . . 2002 . .	81 607
	1997 . .	62 833
	New York . . . . . 2002 . .	250 572
	1997 . .	43 027
	North Carolina . . . . . 2002 . .	45 160
	1997 . .	42 139
	Ohio . . . . . 2002 . .	29 553
	1997 . .	95 376
	Pennsylvania . . . . . 2002 . .	27 154
	1997 . .	58 874
	Texas . . . . . 2002 . .	76 709
	1997 . .	79 501
	Virginia . . . . . 2002 . .	19 317
	1997 . .	32 237

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333293	Printing machinery and equipment manufacturing		
00900001	Total materials .....2002..	X	1 167 982
	.....1997..	X	1 414 182
00190090	Fluid power products .....2002..	X	13 391
	.....1997..	X	41 429
33200057	Fabricated metal products (excluding forgings) .....2002..	X	187 669
	.....1997..	X	197 701
33210000	Forgings .....2002..	X	4 102
	.....1997..	X	N
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	29 484
	.....1997..	X	33 951
33152011	Nonferrous (aluminum, copper, etc.) castings (rough and semifinished) .....2002..	X	7 527
	.....1997..	X	5 316
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	20 443
	.....1997..	X	41 541
33120085	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	11 561
	.....1997..	X	21 068
33100038	Aluminum and aluminum-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	17 298
	.....1997..	X	N
33100077	Other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	3 504
	.....1997..	X	2 314
33531225	Fractional horsepower electric motors and generators (less than 1 hp) .....2002..	X	9 623
	.....1997..	X	N
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	6 620
	.....1997..	X	20 818
33299105	Ball bearings (mounted or unmounted) .....2002..	X	9 459
	.....1997..	X	17 897
33299103	Roller bearings (mounted or unmounted) .....2002..	X	6 106
	.....1997..	X	15 554
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	11 839
	.....1997..	X	34 536
001900B1	Electrical transmission, distribution, and control equipment .....2002..	X	26 710
	.....1997..	X	44 168
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	342 921
	.....1997..	X	591 155
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	459 725
	.....1997..	X	346 734

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.